OM nucleic - nucleic search, using sw model

Run on: August 13, 2005, 20:15:24 ; Search time 111 Seconds
(without alignments)
3184.106 Million cell updates/sec

Title: US-09-446-628-1
Perfect score: 216
Sequence: 1 gctaatcagcaatttaaggc.....tgagcatctaagaacatatc 216

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
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4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.		Score	% Query Match	Length	DB	ID	Description
c	1	180.4	83.5	601	4	US-09-949-016-18686	Sequence 18686, A
c	2	180.4	83.5	601	4	US-09-949-016-111561	Sequence 111561,
c	3	180.4	83.5	601	4	US-09-949-016-111709	Sequence 111709,
c	4	180.4	83.5	601	4	US-09-949-016-111855	Sequence 111855,
c	5	180.4	83.5	601	4	US-09-949-016-112000	Sequence 112000,
	6	180.4	83.5	113876	4	US-09-949-016-14828	Sequence 14828, A
	7	180.4	83.5	113876	4	US-09-949-016-14829	Sequence 14829, A
	8	180.4	83.5	115508	4	US-09-949-016-11800	Sequence 11800, A
	9	180.4	83.5	115508	4	US-09-949-016-14826	Sequence 14826, A
	10	180.4	83.5	115508	4	US-09-949-016-14827	Sequence 14827, A
c	11	62	28.7	601	4	US-09-949-016-18687	Sequence 18687, A
c	12	62	28.7	601	4	US-09-949-016-111562	Sequence 111562,
c	13	62	28.7	601	4	US-09-949-016-111710	Sequence 111710,
c	14	62	28.7	601	4	US-09-949-016-111856	Sequence 111856,
c	15	62	28.7	601	4	US-09-949-016-112001	Sequence 112001,
	16	47.6	22.0	1096	4	US-09-949-016-3086	Sequence 3086, Ap
	17	47.6	22.0	1096	4	US-09-949-016-3087	Sequence 3087, Ap
	18	47.6	22.0	1543	4	US-09-949-016-58	Sequence 58, Appl
	19	47.6	22.0	1543	4	US-09-949-016-3084	Sequence 3084, Ap
	20	47.6	22.0	1543	4	US-09-949-016-3085	Sequence 3085, Ap
	21	47.6	22.0	1560	5	PCT-US94-09789-1	Sequence 1, Appli
	22	40.2	18.6	409	4	US-09-513-999C-2347	Sequence 2347, Ap
	23	35	16.2	421118	4	US-09-949-016-16297	Sequence 16297, A
c	24	33.4	15.5	24204	4	US-09-949-016-16232	Sequence 16232, A
	25	33.2	15.4	22294	4	US-09-949-016-15522	Sequence 15522, A
c	26	33.2	15.4	76610	4	US-09-949-016-15521	Sequence 15521, A
c	27	33	15.3	23766	4	US-09-949-016-13569	Sequence 13569, A
c	28	32.8	15.2	119762	4	US-09-949-016-17313	Sequence 17313, A
	29	32.6	15.1	96739	4	US-09-949-016-15606	Sequence 15606, A
	30	32.4	15.0	192506	4	US-09-949-016-15830	Sequence 15830, A
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c	32	32.2	14.9	9968	4	US-09-949-016-17571	Sequence 17571, A
c	33	32.2	14.9	343352	4	US-09-949-016-13498	Sequence 13498, A
c	34	31.6	14.6	53558	4	US-09-949-016-16616	Sequence 16616, A
c	35	31.4	14.5	92155	4	US-09-949-016-17484	Sequence 17484, A
	36	31.2	14.4	94830	4	US-09-949-016-12414	Sequence 12414, A
	37	31.2	14.4	94847	4	US-09-949-016-16336	Sequence 16336, A
	38	31	14.4	927	4	US-09-248-796A-825	Sequence 825, App
	39	31	14.4	49011	4	US-09-949-016-14221	Sequence 14221, A
c	40	30.8	14.3	601	4	US-09-949-016-133969	Sequence 133969,
c	41	30.8	14.3	601	4	US-09-949-016-133970	Sequence 133970,
c	42	30.8	14.3	601	4	US-09-949-016-133971	Sequence 133971,
c	43	30.8	14.3	601	4	US-09-949-016-133972	Sequence 133972,
c	44	30.8	14.3	601	4	US-09-949-016-133973	Sequence 133973,
c	45	30.8	14.3	221958	4	US-09-949-016-12173	Sequence 12173, A

ALIGNMENTS

RESULT 1
US-09-949-016-18686/c
; Sequence 18686, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOP
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 18686
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-18686

Query Match 83.5%; Score 180.4; DB 4; Length 601;
Best Local Similarity 97.7%; Pred. No. 2.3e-50;
Matches 214; Conservative 0; Mismatches 2; Indels 3; Gaps 3;

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              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        560 GCTAATCAGCAATTTAAGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAGGCTC 501

Qy         61 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGACAACAGGTAAGCTCCATTGTGCTTATAT 120
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Db        500 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGGCAACAGGTAAGCTCCATTGTGCTTATAT 441

Qy        121 -CAAAGATGATATNTAAAGTATCTAGTGATTAGTGTGGCCCAGTA-TCAAGATTCCTATG 178
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Db        440 CCAAAGATGATATTTAAAGTATCTAGTGATTAGTGTGGCCCAGTATTCAAGATTCCTATG 381

Qy        179 AAATTGTAAAACAATCACTGAGCA-TCTAAGAACATATC 216
              |||||||||||||||||||||||| ||||||||||||||
Db        380 AAATTGTAAAACAATCACTGAGCATTCTAAGAACATATC 342
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RESULT 2
US-09-949-016-111561/c
; Sequence 111561, Application US/09949016
; Patent No. 6812339

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; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 111561
;   LENGTH: 601
;   TYPE: DNA
;   ORGANISM: Human
US-09-949-016-111561

  Query Match             83.5%;  Score 180.4;  DB 4;  Length 601;
  Best Local Similarity   97.7%;  Pred. No. 2.3e-50;
  Matches  214;  Conservative    0;  Mismatches    2;  Indels    3;  Gaps    3;

Qy          1 GCTAATCAGCAATTTAAGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAGGCTC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        560 GCTAATCAGCAATTTAAGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAGGCTC 501

Qy         61 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGACAACAGGTAAGCTCCATTGTGCTTATAT 120
              |||||||||||||||||||||||||||||| ||||||||||||||||||||||||||||||
Db        500 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGGCAACAGGTAAGCTCCATTGTGCTTATAT 441

Qy        121 -CAAAGATGATATNTAAAGTATCTAGTGATTAGTGTGGCCCAGTA-TCAAGATTCCTATG 178
               |||||||||||| |||||||||||||||||||||||||||||| |||||||||||||||
Db        440 CCAAAGATGATATTTAAAGTATCTAGTGATTAGTGTGGCCCAGTATTCAAGATTCCTATG 381

Qy        179 AAATTGTAAAACAATCACTGAGCA-TCTAAGAACATATC 216
              ||||||||||||||||||||||| ||||||||||||||
Db        380 AAATTGTAAAACAATCACTGAGCATTCTAAGAACATATC 342


RESULT 3
US-09-949-016-111709/c
; Sequence 111709, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 111709
;   LENGTH: 601
;   TYPE: DNA
;   ORGANISM: Human
US-09-949-016-111709

  Query Match             83.5%;  Score 180.4;  DB 4;  Length 601;
  Best Local Similarity   97.7%;  Pred. No. 2.3e-50;
  Matches  214;  Conservative    0;  Mismatches    2;  Indels    3;  Gaps    3;

Qy          1 GCTAATCAGCAATTTAAGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAGGCTC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Db        560 GCTAATCAGCAATTTAAGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAGGCTC 501

Qy         61 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGACAACAGGTAAGCTCCATTGTGCTTATAT 120
              |||||||||||||||||||||||||||||| ||||||||||||||||||||||||||||||
Db        500 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGGCAACAGGTAAGCTCCATTGTGCTTATAT 441

Qy        121 -CAAAGATGATATNTAAAGTATCTAGTGATTAGTGTGGCCCAGTA-TCAAGATTCCTATG 178
               |||||||||||| |||||||||||||||||||||||||||||| |||||||||||||||
Db        440 CCAAAGATGATATTTAAAGTATCTAGTGATTAGTGTGGCCCAGTATTCAAGATTCCTATG 381

Qy        179 AAATTGTAAAACAATCACTGAGCA-TCTAAGAACATATC 216
              ||||||||||||||||||||||| ||||||||||||||
Db        380 AAATTGTAAAACAATCACTGAGCATTCTAAGAACATATC 342


RESULT 4
US-09-949-016-111855/c
; Sequence 111855, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 111855
;   LENGTH: 601
;   TYPE: DNA
;   ORGANISM: Human
US-09-949-016-111855

  Query Match             83.5%;  Score 180.4;  DB 4;  Length 601;
  Best Local Similarity   97.7%;  Pred. No. 2.3e-50;
  Matches  214;  Conservative    0;  Mismatches    2;  Indels    3;  Gaps    3;

Qy          1 GCTAATCAGCAATTTAAGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAGGCTC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        560 GCTAATCAGCAATTTAAGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAGGCTC 501

Qy         61 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGACAACAGGTAAGCTCCATTGTGCTTATAT 120
              |||||||||||||||||||||||||||||| ||||||||||||||||||||||||||||||
Db        500 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGGCAACAGGTAAGCTCCATTGTGCTTATAT 441

Qy        121 -CAAAGATGATATNTAAAGTATCTAGTGATTAGTGTGGCCCAGTA-TCAAGATTCCTATG 178
               |||||||||||| |||||||||||||||||||||||||||||| |||||||||||||||
Db        440 CCAAAGATGATATTTAAAGTATCTAGTGATTAGTGTGGCCCAGTATTCAAGATTCCTATG 381

Qy        179 AAATTGTAAAACAATCACTGAGCA-TCTAAGAACATATC 216
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Db        380 AAATTGTAAAACAATCACTGAGCATTCTAAGAACATATC 342


RESULT 5
US-09-949-016-112000/c
; Sequence 112000, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
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;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 112000
;   LENGTH: 601
;   TYPE: DNA
;   ORGANISM: Human
US-09-949-016-112000

  Query Match             83.5%;  Score 180.4;  DB 4;  Length 601;
  Best Local Similarity   97.7%;  Pred. No. 2.3e-50;
  Matches  214;  Conservative    0;  Mismatches    2;  Indels    3;  Gaps    3;

Qy          1 GCTAATCAGCAATTTAAGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAGGCTC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        560 GCTAATCAGCAATTTAAGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAGGCTC 501

Qy         61 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGACAACAGGTAAGCTCCATTGTGCTTATAT 120
              |||||||||||||||||||||||||||| ||||||||||||||||||||||||||||||
Db        500 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGGCAACAGGTAAGCTCCATTGTGCTTATAT 441

Qy        121 -CAAAGATGATATNTAAAGTATCTAGTGATTAGTGTGGCCCAGTA-TCAAGATTCCTATG 178
               |||||||||||| |||||||||||||||||||||||||||||| ||||||||||||||
Db        440 CCAAAGATGATATTTAAAGTATCTAGTGATTAGTGTGGCCCAGTATTCAAGATTCCTATG 381

Qy        179 AAATTGTAAAACAATCACTGAGCA-TCTAAGAACATATC 216
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Db        380 AAATTGTAAAACAATCACTGAGCATTCTAAGAACATATC 342


RESULT 6
US-09-949-016-14828
; Sequence 14828, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14828
;   LENGTH: 113876
;   TYPE: DNA
;   ORGANISM: Human
US-09-949-016-14828

  Query Match             83.5%;  Score 180.4;  DB 4;  Length 113876;
  Best Local Similarity   97.7%;  Pred. No. 2.1e-49;
  Matches  214;  Conservative    0;  Mismatches    2;  Indels    3;  Gaps    3;

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              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy         61 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGACAACAGGTAAGCTCCATTGTGCTTATAT 120
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Qy        121 -CAAAGATGATATNTAAAGTATCTAGTGATTAGTGTGGCCCAGTA-TCAAGATTCCTATG 178
               |||||||||||| |||||||||||||||||||||||||||||| ||||||||||||||
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Qy        179 AAATTGTAAAACAATCACTGAGCA-TCTAAGAACATATC 216
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Db       9621 AAATTGTAAAACAATCACTGAGCATTCTAAGAACATATC 9659


RESULT 7
US-09-949-016-14829
; Sequence 14829, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14829
;   LENGTH: 113876
;   TYPE: DNA
;   ORGANISM: Human
US-09-949-016-14829

  Query Match             83.5%;  Score 180.4;  DB 4;  Length 113876;
  Best Local Similarity   97.7%;  Pred. No. 2.1e-49;
  Matches  214;  Conservative    0;  Mismatches    2;  Indels    3;  Gaps    3;

Qy          1 GCTAATCAGCAATTTAAGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAGGCTC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       9441 GCTAATCAGCAATTTAAGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAGGCTC 9500

Qy         61 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGACAACAGGTAAGCTCCATTGTGCTTATAT 120
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Db       9501 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGGCAACAGGTAAGCTCCATTGTGCTTATAT 9560

Qy        121 -CAAAGATGATATNTAAAGTATCTAGTGATTAGTGTGGCCCAGTA-TCAAGATTCCTATG 178
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Db       9561 CCAAAGATGATATTTAAAGTATCTAGTGATTAGTGTGGCCCAGTATTCAAGATTCCTATG 9620

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RESULT 8
US-09-949-016-11800
; Sequence 11800, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11800
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;   LENGTH: 115508
;   TYPE: DNA
;   ORGANISM: Human
US-09-949-016-11800

  Query Match             83.5%;  Score 180.4;  DB 4;  Length 115508;
  Best Local Similarity   97.7%;  Pred. No. 2.2e-49;
  Matches  214;  Conservative    0;  Mismatches    2;  Indels    3;  Gaps    3;

Qy          1 GCTAATCAGCAATTTAAGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAGGCTC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      10743 GCTAATCAGCAATTTAAGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAGGCTC 10802

Qy         61 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGACAACAGGTAAGCTCCATTGTGCTTATAT 120
              |||||||||||||||||||||||||||||| ||||||||||||||||||||||||||||
Db      10803 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGGCAACAGGTAAGCTCCATTGTGCTTATAT 10862

Qy        121 -CAAAGATGATATNTAAAGTATCTAGTGATTAGTGTGGCCCAGTA-TCAAGATTCCTATG 178
               |||||||||||| |||||||||||||||||||||||||||||| ||||||||||||||
Db      10863 CCAAAGATGATATTTAAAGTATCTAGTGATTAGTGTGGCCCAGTATTCAAGATTCCTATG 10922

Qy        179 AAATTGTAAAACAATCACTGAGCA-TCTAAGAACATATC 216
              ||||||||||||||||||||||| ||||||||||||||
Db      10923 AAATTGTAAAACAATCACTGAGCATTCTAAGAACATATC 10961


RESULT 9
US-09-949-016-14826
; Sequence 14826, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14826
;   LENGTH: 115508
;   TYPE: DNA
;   ORGANISM: Human
US-09-949-016-14826

  Query Match             83.5%;  Score 180.4;  DB 4;  Length 115508;
  Best Local Similarity   97.7%;  Pred. No. 2.2e-49;
  Matches  214;  Conservative    0;  Mismatches    2;  Indels    3;  Gaps    3;

Qy          1 GCTAATCAGCAATTTAAGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAGGCTC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      10743 GCTAATCAGCAATTTAAGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAGGCTC 10802

Qy         61 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGACAACAGGTAAGCTCCATTGTGCTTATAT 120
              |||||||||||||||||||||||||||||| ||||||||||||||||||||||||||||
Db      10803 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGGCAACAGGTAAGCTCCATTGTGCTTATAT 10862

Qy        121 -CAAAGATGATATNTAAAGTATCTAGTGATTAGTGTGGCCCAGTA-TCAAGATTCCTATG 178
               |||||||||||| |||||||||||||||||||||||||||||| ||||||||||||||
Db      10863 CCAAAGATGATATTTAAAGTATCTAGTGATTAGTGTGGCCCAGTATTCAAGATTCCTATG 10922

Qy        179 AAATTGTAAAACAATCACTGAGCA-TCTAAGAACATATC 216
              ||||||||||||||||||||||| ||||||||||||||
Db      10923 AAATTGTAAAACAATCACTGAGCATTCTAAGAACATATC 10961


RESULT 10
US-09-949-016-14827
; Sequence 14827, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14827
;   LENGTH: 115508
;   TYPE: DNA
;   ORGANISM: Human
US-09-949-016-14827

  Query Match             83.5%;  Score 180.4;  DB 4;  Length 115508;
  Best Local Similarity   97.7%;  Pred. No. 2.2e-49;
  Matches  214;  Conservative    0;  Mismatches    2;  Indels    3;  Gaps    3;

Qy          1 GCTAATCAGCAATTTAAGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAGGCTC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      10743 GCTAATCAGCAATTTAAGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAGGCTC 10802

Qy         61 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGACAACAGGTAAGCTCCATTGTGCTTATAT 120
              |||||||||||||||||||||||||||||| ||||||||||||||||||||||||||||
Db      10803 CAAAACCAAGGAGGGAGTGGTGCATGGTGTGGCAACAGGTAAGCTCCATTGTGCTTATAT 10862

Qy        121 -CAAAGATGATATNTAAAGTATCTAGTGATTAGTGTGGCCCAGTA-TCAAGATTCCTATG 178
               |||||||||||| |||||||||||||||||||||||||||||| ||||||||||||||
Db      10863 CCAAAGATGATATTTAAAGTATCTAGTGATTAGTGTGGCCCAGTATTCAAGATTCCTATG 10922

Qy        179 AAATTGTAAAACAATCACTGAGCA-TCTAAGAACATATC 216
              ||||||||||||||||||||||| ||||||||||||||
Db      10923 AAATTGTAAAACAATCACTGAGCATTCTAAGAACATATC 10961


RESULT 11
US-09-949-016-18687/c
; Sequence 18687, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 18687
;   LENGTH: 601
;   TYPE: DNA
;   ORGANISM: Human
US-09-949-016-18687

  Query Match             28.7%;  Score 62;  DB 4;  Length 601;
  Best Local Similarity   96.6%;  Pred. No. 9e-11;
  Matches   84;  Conservative    0;  Mismatches    1;  Indels    2;  Gaps    2;
```

```
Qy        132 TNTAAAGTATCTAGTGATTAGTGTGGCCCAGTA-TCAAGATTCCTATGAAATTGTAAAAC 190
              | |||||||||||||||||||||||||||||||| |||||||||||||||||||||||||||
Db        601 TTTAAAGTATCTAGTGATTAGTGTGGCCCAGTATTCAAGATTCCTATGAAATTGTAAAAC 542

Qy        191 AATCACTGAGCA-TCTAAGAACATATC 216
              |||||||||||| ||||||||||||||
Db        541 AATCACTGAGCATTCTAAGAACATATC 515


RESULT 12
US-09-949-016-111562/c
; Sequence 111562, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 111562
;   LENGTH: 601
;   TYPE: DNA
;   ORGANISM: Human
US-09-949-016-111562

  Query Match             28.7%;  Score 62;  DB 4;  Length 601;
  Best Local Similarity   96.6%;  Pred. No. 9e-11;
  Matches   84;  Conservative    0;  Mismatches    1;  Indels    2;  Gaps    2;

Qy        132 TNTAAAGTATCTAGTGATTAGTGTGGCCCAGTA-TCAAGATTCCTATGAAATTGTAAAAC 190
              | |||||||||||||||||||||||||||||||| |||||||||||||||||||||||||||
Db        601 TTTAAAGTATCTAGTGATTAGTGTGGCCCAGTATTCAAGATTCCTATGAAATTGTAAAAC 542

Qy        191 AATCACTGAGCA-TCTAAGAACATATC 216
              |||||||||||| ||||||||||||||
Db        541 AATCACTGAGCATTCTAAGAACATATC 515


RESULT 13
US-09-949-016-111710/c
; Sequence 111710, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 111710
;   LENGTH: 601
;   TYPE: DNA
;   ORGANISM: Human
US-09-949-016-111710

  Query Match             28.7%;  Score 62;  DB 4;  Length 601;
  Best Local Similarity   96.6%;  Pred. No. 9e-11;
  Matches   84;  Conservative    0;  Mismatches    1;  Indels    2;  Gaps    2;

Qy        132 TNTAAAGTATCTAGTGATTAGTGTGGCCCAGTA-TCAAGATTCCTATGAAATTGTAAAAC 190
              | |||||||||||||||||||||||||||||||| |||||||||||||||||||||||||||
Db        601 TTTAAAGTATCTAGTGATTAGTGTGGCCCAGTATTCAAGATTCCTATGAAATTGTAAAAC 542

Qy        191 AATCACTGAGCA-TCTAAGAACATATC 216
              |||||||||||| ||||||||||||||
Db        541 AATCACTGAGCATTCTAAGAACATATC 515


RESULT 14
US-09-949-016-111856/c
; Sequence 111856, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 111856
;   LENGTH: 601
;   TYPE: DNA
;   ORGANISM: Human
US-09-949-016-111856

  Query Match             28.7%;  Score 62;  DB 4;  Length 601;
  Best Local Similarity   96.6%;  Pred. No. 9e-11;
  Matches   84;  Conservative    0;  Mismatches    1;  Indels    2;  Gaps    2;

Qy        132 TNTAAAGTATCTAGTGATTAGTGTGGCCCAGTA-TCAAGATTCCTATGAAATTGTAAAAC 190
              | |||||||||||||||||||||||||||||||| |||||||||||||||||||||||||||
Db        601 TTTAAAGTATCTAGTGATTAGTGTGGCCCAGTATTCAAGATTCCTATGAAATTGTAAAAC 542

Qy        191 AATCACTGAGCA-TCTAAGAACATATC 216
              |||||||||||| ||||||||||||||
Db        541 AATCACTGAGCATTCTAAGAACATATC 515


RESULT 15
US-09-949-016-112001/c
; Sequence 112001, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 112001
;   LENGTH: 601
;   TYPE: DNA
```

; ORGANISM: Human
US-09-949-016-112001

Query Match 28.7%; Score 62; DB 4; Length 601;
Best Local Similarity 96.6%; Pred. No. 9e-11;
Matches 84; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

```
Qy        132 TNTAAAGTATCTAGTGATTAGTGTGGCCCAGTA-TCAAGATTCCTATGAAATTGTAAAAC 190
              | |||||||||||||||||||||||||||||||| |||||||||||||||||||||||||
Db        601 TTTAAAGTATCTAGTGATTAGTGTGGCCCAGTATTCAAGATTCCTATGAAATTGTAAAAC 542

Qy        191 AATCACTGAGCA-TCTAAGAACATATC 216
              |||||||||||| ||||||||||||||
Db        541 AATCACTGAGCATTCTAAGAACATATC 515
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Search completed: August 13, 2005, 21:57:00
Job time : 114 secs